

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
17 February 2005 (17.02.2005)

PCT

(10) International Publication Number  
**WO 2005/014089 A1**

(51) International Patent Classification<sup>7</sup>: **A61M 15/00**

(21) International Application Number:  
**PCT/GB2004/008235**

(22) International Filing Date: **21 July 2004 (21.07.2004)**

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data:  
**0317374.7 24 July 2003 (24.07.2003) GB**

(71) Applicant (*for all designated States except US*): **GLAXO GROUP LIMITED [GB/GB]**; Glaxo Wellcome House, Berkeley Avenue, Greenford Middlesex UB6 0NN (GB).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **AUGUSTYN, Stephen [GB/GB]**; 11 Gatcombe, Great Holm, Milton Keynes Buckinghamshire MK8 9EA (GB). **CROSBY, Gary, Thomas [GB/GB]**; GlaxoSmithKline, Park Road, Ware Hertfordshire SG12 0DP (GB). **DAVIES, Michael, Birsha [GB/GB]**; GlaxoSmithKline, Park Road, Ware Hertfordshire SG12 0DP (GB). **HARVEY, Stephen, James [GB/GB]**; GlaxoSmithKline, Park Road, Ware Hertfordshire SG12 0DP (GB).

Hertfordshire SG12 0DP (GB). **PALMER, Mark, Gregory [GB/GB]**; GlaxoSmithKline, Park Road, Ware Hertfordshire SG12 0DP (GB). **RAND, Paul, Kenneth [GB/GB]**; GlaxoSmithKline, Park Road, Ware Hertfordshire SG12 0DP (GB). **WILSON, Alan, Anthony [GB/GB]**; GlaxoSmithKline, Park Road, Ware Hertfordshire SG12 0DP (GB).

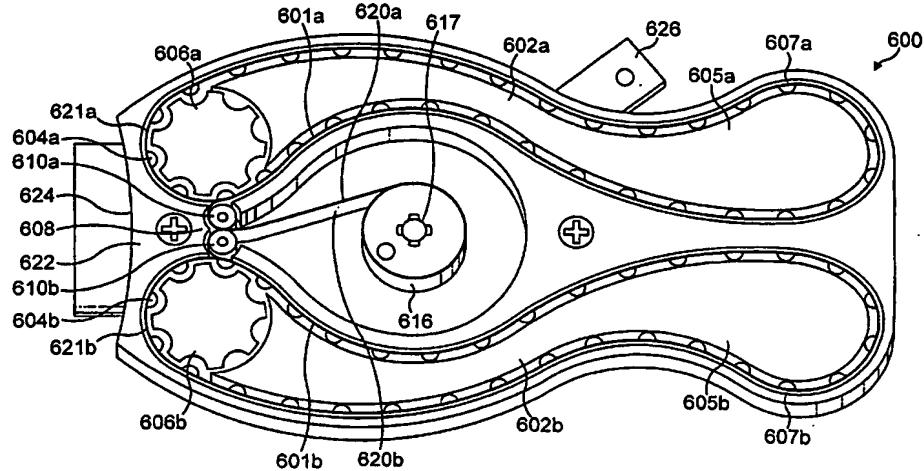
(74) Agent: **RICE, Jason, Neale; GlaxoSmithKline, Corporate Intellectual Property (CN925.1), 980 Great West Road, Brentford Middlesex TW8 9GS (GB)**.

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): **AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW**.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): **ARIPO (BW, GH,**

*[Continued on next page]*

(54) Title: MEDICAMENT DISPENSER





GM, KH, LS, MW, MZ, NA, SD, SI, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

**Published:**

— *with international search report*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*